

K. Young

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1631

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/398,253

DATE: 09/19/2000
TIME: 18:39:26

Input Set : A:\8535-026.txt
Output Set: N:\CRF3\09192000\I398253.raw

4 <110> APPLICANT: Nehls, Michael
5 Zambrowicz, Brian
6 Sands, Arthur T.
8 <120> TITLE OF INVENTION: NOVEL HUMAN POLYNUCLEOTIDES AND THE
9 POLYPEPTIDES ENCODED THEREBY
12 <130> FILE REFERENCE: 8535-0026-999
14 <140> CURRENT APPLICATION NUMBER: US 09/398,253
15 <141> CURRENT FILING DATE: 1999-09-17
17 <150> PRIOR APPLICATION NUMBER: US 60/095,989
18 <151> PRIOR FILING DATE: 1998-08-10
20 <150> PRIOR APPLICATION NUMBER: US 60/100,917
21 <151> PRIOR FILING DATE: 1998-09-17
23 <160> NUMBER OF SEQ ID NOS: 1008
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 40
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Primer
35 <400> SEQUENCE: 1
36 tggctaggcc ccaggatagg cctcgctggc cttttttttt
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 24
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Primer
46 <400> SEQUENCE: 2
47 gccatggctc cggtaggtcc agag
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 19
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Primer
57 <400> SEQUENCE: 3
58 tggctaggcc ccaggatag
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 19
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Primer
68 <400> SEQUENCE: 4
69 gtccagagat ggccatagc
71 <210> SEQ ID NO: 5

ENTERED

See P. 5

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19

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72 <211> LENGTH: 18
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Primer
79 <400> SEQUENCE: 5
80 ccaggatagg cctcgctg 18
82 <210> SEQ ID NO: 6
83 <211> LENGTH: 23
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Primer
90 <400> SEQUENCE: 6
91 tacagttttt ctgtgaaga ttg 23
93 <210> SEQ ID NO: 7
94 <211> LENGTH: 19
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Primer
101 <400> SEQUENCE: 7
102 gggtagtccc caccttttg 19
104 <210> SEQ ID NO: 8
105 <211> LENGTH: 20
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Primer
112 <400> SEQUENCE: 8
113 tccaagtcct ggcattcac 20
115 <210> SEQ ID NO: 9
116 <211> LENGTH: 171
117 <212> TYPE: DNA
118 <213> ORGANISM: Homo sapiens
120 <220> FEATURE:
121 <221> NAME/KEY: misc_feature
122 <222> LOCATION: (1)...(171) /
123 <223> OTHER INFORMATION: n = A,T,C or G
125 <400> SEQUENCE: 9
W--> 126 gtncacanan ganngnnt gtgaggacac agcnagaagc aagtctntgc atgcnagaa 60
W--> 127 gaacggcctc aacagacacc annctgcca gcaccttgat ctgggttnt ggcctccaga 120
W--> 128 actgtgaaag antaaagatt ctgtgttta agccagtaca aaataaatag g 171
130 <210> SEQ ID NO: 10
131 <211> LENGTH: 294
132 <212> TYPE: DNA
133 <213> ORGANISM: Homo sapiens
135 <400> SEQUENCE: 10
136 agagtgtgac gatccccctg atgcggctga gatgttctga aatgaagacg ttggctctca 60

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137 tccccagcct gaagagagaa aattctgaga tggctccctt acggattgag agcaggcact 120
138 gggtaggaac acagccaaga acgattgcag gatgggtcct tccaggacac tgacgtctca 180
139 gcttgcgcaac tgtgagtcct tggacgagtt actccacctc tctgaacctc ctctcactt 240
140 gcataatggg aaaaataatg gacatagggg gatgaaacaa gaccttgagg acca      294
142 <210> SEQ ID NO: 11
143 <211> LENGTH: 241
144 <212> TYPE: DNA
145 <213> ORGANISM: Homo sapiens
147 <220> FEATURE:
148 <221> NAME/KEY: misc_feature /
149 <222> LOCATION: (1)...(241)
150 <223> OTHER INFORMATION: n = A,T,C or G
152 <400> SEQUENCE: 11
W--> 153 ggatgccttc taaacagcct accctgcccc gngccatgat tactgtgacc acatcttcag 60
W--> 154 agccagaaaa caggatacct ggcctaagc atgcactcat ggagcanaag agttttaaat 120
W--> 155 ctgntatgcc acagaagaca gaagataaca tgcttactac acttgtnaag caacatgcag 180
156 ccagccattt ccagtcaaaa ttatctcatt gcatagtgtg acaactaaag gtcataacca 240
157 t      241
159 <210> SEQ ID NO: 12
160 <211> LENGTH: 197
161 <212> TYPE: DNA
162 <213> ORGANISM: Homo sapiens
164 <400> SEQUENCE: 12
165 acaggatgcc tgtaatcatt attcagtgag cagcaacctg cagcagctcc tctgactgg 60
166 cagatggggc ttggcgccac ccagaggctg gggacacagc aagaatccag cacagcaccg 120
167 atcccgatcc cctcctcccc aaactacctg agccatggac ctcatcttgt ggacaaaatt 180
168 aaacttgcca ctttcac      197
170 <210> SEQ ID NO: 13
171 <211> LENGTH: 387
172 <212> TYPE: DNA
173 <213> ORGANISM: Homo sapiens
175 <220> FEATURE:
176 <221> NAME/KEY: misc_feature /
177 <222> LOCATION: (1)...(387)
178 <223> OTHER INFORMATION: n = A,T,C or G
180 <400> SEQUENCE: 13
W--> 181 tgggtgcttac taaaaattga ataancgtgg aaaagagaaa atctccctct ttaaaaggaa 60
182 cactgttgtg gacattttaa aatgcaaacg ccttggtctg aagtcagaaa tcgtgttctc 120
183 tctgctaaac ctgggtgtagc atttaacacg cttgaagtgg aggcattctg tcaccaattt 180
184 cacagcctgg acagagcaag aagggtcggc tggcttagga ggcggcctgc cgggggggat 240
185 cgtctgtcca tctgggcttg gtaaatgtca agggtcattt ccctgtcctg acatttgatt 300
186 gtgaagcagg ttgcgaggta actctttcaa gggactggac tgtgacagtc accatagtgt 360
187 gacaataaaa ccggaacatc cttcacc      387
189 <210> SEQ ID NO: 14
190 <211> LENGTH: 326
191 <212> TYPE: DNA
192 <213> ORGANISM: Homo sapiens
194 <220> FEATURE:
195 <221> NAME/KEY: misc_feature

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196 <222> LOCATION: (1)...(326) /
197 <223> OTHER INFORMATION: n = A,T,C or G
199 <400> SEQUENCE: 14
W--> 200 ggacagtggc taactcagca gacnaaccac agcttcctgc cctttgcaga tggcntgaan 60
W--> 201 ataagagttt gccaaacaac taagatgggc tcttgattga gcaanaaac cacaacatgg 120
W--> 202 gacacacaga gccaccctat tgnccctactg tcattcaagc ttaaaggaga catatctaca 180
W--> 203 gacaggggtt ggccttagtn atggnganaa ctttcttggg tgtctcaaca ncctgganat 240
W--> 204 gannntcccn acaaggcaga anancnaggt ggnacattgn tnnatttget ttttattcaa 300
205 ttataaaaagt aatgcattgct ttttgt 326
207 <210> SEQ ID NO: 15
208 <211> LENGTH: 166
209 <212> TYPE: DNA
210 <213> ORGANISM: Homo sapiens
212 <400> SEQUENCE: 15
213 tcagtatcct gacctggcaa ggtgttcctt aacctcccct ctggatcccc cttagcacac 60
214 atctgggaca atggagcgtt cagcaccacg gacagcatta caccctcttc aagtgttgt 120
215 taaggccatt tgtctatttc actctcaagt aaataaaaaat attttt 166
217 <210> SEQ ID NO: 16
218 <211> LENGTH: 638
219 <212> TYPE: DNA
220 <213> ORGANISM: Homo sapiens
222 <220> FEATURE:
223 <221> NAME/KEY: misc_feature
224 <222> LOCATION: (1)...(638) /
225 <223> OTHER INFORMATION: n = A,T,C or G
227 <400> SEQUENCE: 16
W--> 228 annntttnt tngnnanna tctganncca nccagantnn tactctgngg acantncatc 60
W--> 229 atgacnaagt cccactgann acagacattc aagccatcca tgtagangg ganttgatnc 120
W--> 230 cnttgccctt tgcnttgann gnganncttc ngtngccang nnganntgtn gcagntcatc 180
W--> 231 ttgnacgacc tctggctcat tgcattgcct catnatgacc aggttnnagt gattcccgtg 240
W--> 232 cttcngnctc ctgagaagct gggattacgg gcctctgcca gactgtttca tagatgctca 300
W--> 233 agacaccagc aaaccagncc caccgaacaa gtatgagaaa agaacaggct agattatggt 360
234 atccagaact tcacaacct cagatctaga cagaaggagg tggacagtga acacagaaaa 420
235 gctgtaaggt gtctgtgac agatgtatgt ggtggacaca gcaggaccca gaggaaggaa 480
236 gaaagaagct gctcttgaaa agaccctcaa accacgatgc tcaaggaaat gtcgagagat 540
237 gaaggagagg tgtttgccag gcagagcagt agagacaagt tttcgccatg ttggtcaagc 600
W--> 238 tgggtcctcaa cttctaacct nacgtaatcc accccgct 638
240 <210> SEQ ID NO: 17
241 <211> LENGTH: 403
242 <212> TYPE: DNA
243 <213> ORGANISM: Homo sapiens
245 <220> FEATURE:
246 <221> NAME/KEY: misc_feature
247 <222> LOCATION: (1)...(403) /
248 <223> OTHER INFORMATION: n = A,T,C or G
250 <400> SEQUENCE: 17
W--> 251 gnaaagagaa aaacaacatt caacancaac ancaatttcc cgaggatccc tgcccacatt 60
W--> 252 canagtgnca catttaccta cttnanaggg gagatnaaag ccnactcta aggtctctta 120
W--> 253 tttccacagg ctgnaagca aacanggcnt acaggctttg cangagtgtg tcctaattct 180

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W--> 254 cttactgaag aaaagtcaac agcagagaca ncacagaaaa aggaatcaaa gaggccaaat 240
W--> 255 ctgnggactc aaaacaataa gaaaaaataa atcaactttg ctaaaattta agaatgccag 300
256 gggggtaggt aaatgcactg ggaagtatgt gtggactatg atgataataa atctcctttc 360
257 aatacaactg atatttatca gaccttgaat aaaacactga atg 403
259 <210> SEQ ID NO: 18
260 <211> LENGTH: 103
261 <212> TYPE: DNA
262 <213> ORGANISM: Homo sapiens
264 <220> FEATURE:
265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (1)...(103)
267 <223> OTHER INFORMATION: n = A,T,C or G
269 <400> SEQUENCE: 18
270 acttttctcca agctactcag aagactgaag cagaaggatc acttgaggcc aggagttcaa 60
W--> 271 gatcagcctg agcaacatag ngaaacccta tctctaaaaa tac 103
273 <210> SEQ ID NO: 19
274 <211> LENGTH: 333
275 <212> TYPE: DNA
276 <213> ORGANISM: Homo sapiens
278 <400> SEQUENCE: 19
279 gatcccatca tgcttctcct gtcaaatctc cttegtctcc tcacatctgg gacccctttct 60
280 cagtgtgtcc tggcctttca taacctgcac actcttgaag aggattgcc gcaatgtcgg 120
281 agagtgacct gcggtggggg tttgtctgag gcttactcac aattgccgtg ggttatggac 180
282 ttgtggagag aataccacgt acgcgagtgc cctttcacga catcacgtca ggggtgcagg 240
283 tattgtcctg acttaccact gtgaagtcac ctttgatcac ttgggcaagg tgaactctgt 300
284 gcatttctcc aacataaagt tattattttt ccc 333
286 <210> SEQ ID NO: 20
287 <211> LENGTH: 92
288 <212> TYPE: DNA
289 <213> ORGANISM: Homo sapiens
291 <400> SEQUENCE: 20
292 gtgggggtctt tcaagaggat cgcttccagg aggtcaaggc tgccatagcg ccaactgcact 60
293 ccagcctggg cgacagggca aaacctgtga tc 92
295 <210> SEQ ID NO: 21
296 <211> LENGTH: 259
297 <212> TYPE: DNA
298 <213> ORGANISM: Homo sapiens
300 <400> SEQUENCE: 21
301 gaaatatatc atgtagttac' atttcatcct tggaattcct ctctcctgtg agtgcaacct 60
302 gatttgagat gtaataaaac tgcggtgata atgccggagt ctgcgcagac gccagttct 120
303 cccgccagcc gaggatggga gtgatgatga atgggtgccag gcccgctgca taatcttttc 180
304 tgttttaata ctcgattatc atgtccctca tcttccttgg acccaagact caacacatta 240
305 aaatctcttt gtttcttc 259
307 <210> SEQ ID NO: 22
308 <211> LENGTH: 270
309 <212> TYPE: DNA
310 <213> ORGANISM: Homo sapiens
312 <400> SEQUENCE: 22
313 gtggacgtca agaggaacac accagtggaa gaagacacaa gtggctggat attgagagga 60

```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

F.Y.I.

VERIFICATION SUMMARY

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L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:642 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:769 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55

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L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55

L:776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55